



JAMES BRUNING

SENIOR DATA ENGINEER • CHICAGO, UNITED STATES • 6309476916

◦ DETAILS ◦

Chicago
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◦ SKILLS ◦

Extract Transform Load (ETL)

Microsoft Azure

Python (Programming Language)

SQL Databases

Tableau (Software)

Data Warehousing

Predictive Modelling

Communication Skills

Response Rate

Amazon S3

Amazon Web Services

Apache Kafka

Apache Spark

Data Modeling

Git

Java (Programming Language)

Kubernetes

Amazon Redshift

Power BI

Snowflake

Problem Solving

◦ LANGUAGES ◦

English

PERSON PROFILE

As a Senior Research Data Analyst at Northwestern University, I've revolutionized data operations by developing real-time KPI dashboards that track \$1B in awards across 25+ research units. My implementation of new workflows and predictive models using Python, SQL, and Tableau has driven a 25% increase in worker efficiency. Passionate about turning complex data into actionable insights, I've eliminated hundreds of hours of manual work through automated ETL processes while helping organizations make data-driven decisions with confidence.

EMPLOYMENT HISTORY

Sr Research Data Analyst at Northwestern University, Evanston

November 2021 — Present

- Utilized Tableau and SQL to extract and load from multiple data sources using cloud-based servers, generating real-time KPI dashboards for 25+ units within the Office of Research, managing ~\$1B in awards and \$3.8B in proposals
- Led the development and build of an Azure Cloud solution to help bring in over 25 data sources and created a Datawarehouse to serve as a central housing for 4 units in determining bottlenecks in operations. Increased output of staff by 40% and cut down on complaints made by scientists over 60%
- Developed new workflows and turnaround time metrics for Center for Comparative Medicine, Institutional Review Board, and Institutional Animal Care and Use Committee, achieving 25% increase in worker efficiency and identifying pipeline bottlenecks
- Led development of predictive model using Python to analyze research publication trends and identify emerging academic fields, informing strategic funding allocation decisions
- Developed and maintained ETL processes for publication data ingestion through APIs and Python, eliminating hundreds of manual data entry hours
- Collaborated with Research IT and Research Analytics to implement standardized documentation format, delivering subject matter presentations

Assistant Analyst/Admin

October 2018 — Present

- Developed an automated form creation inside of Excel with VBA that 7 staff personnel used for budget generation that managed ~40 proposals for the entire School of Communication
- Developed models to assess year end student survey which lead to a 10% higher response rate and started the conversation for multiple new design and process changes for the school.
- Led workshops on how to implement data driven policies for award and proposal submission while assisting the \$10 Million dollars in awards gathered every year.



EDUCATION



Master's of Science in Data Science, Northwestern University, Evanston

March 2024



Indiana University, Bloomington

May 2018



Bachelors of Arts in Physics, College of Arts and Sciences